4. VCR Alignment and Adjustments

4-1 Reference

1) X-Point (Tracking center) adjustment, “Head switching adjustment” and “NVRAM option setting” can be adjusted with remote control.
2) When replacing the VCR Main PCB Micom (IC601) and NVRAM (IC605 ; EEPROM) be sure to adjust the “Head switching adjustment” and “NVRAM option setting”.
3) When replacing the cylinder ass’y, be sure to adjust the “X-Point” and “Head switching adjustment”.
4) How to adjustment.
   - Press the “SW710 (TEST)” button on Function-Timer PCB to set the adjustment mode.
   - If the corresponding adjustment button is pressed, the adjustment is performed automatically.

4-1-1 Location of adjustment button of remote control

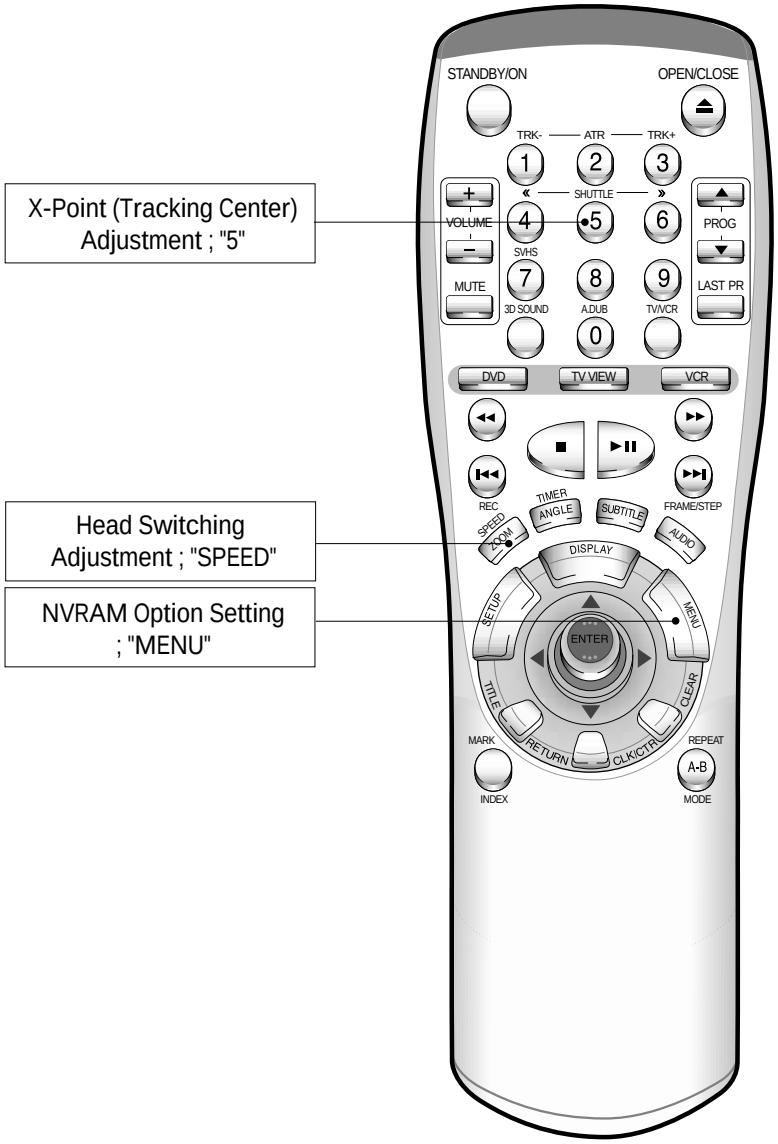
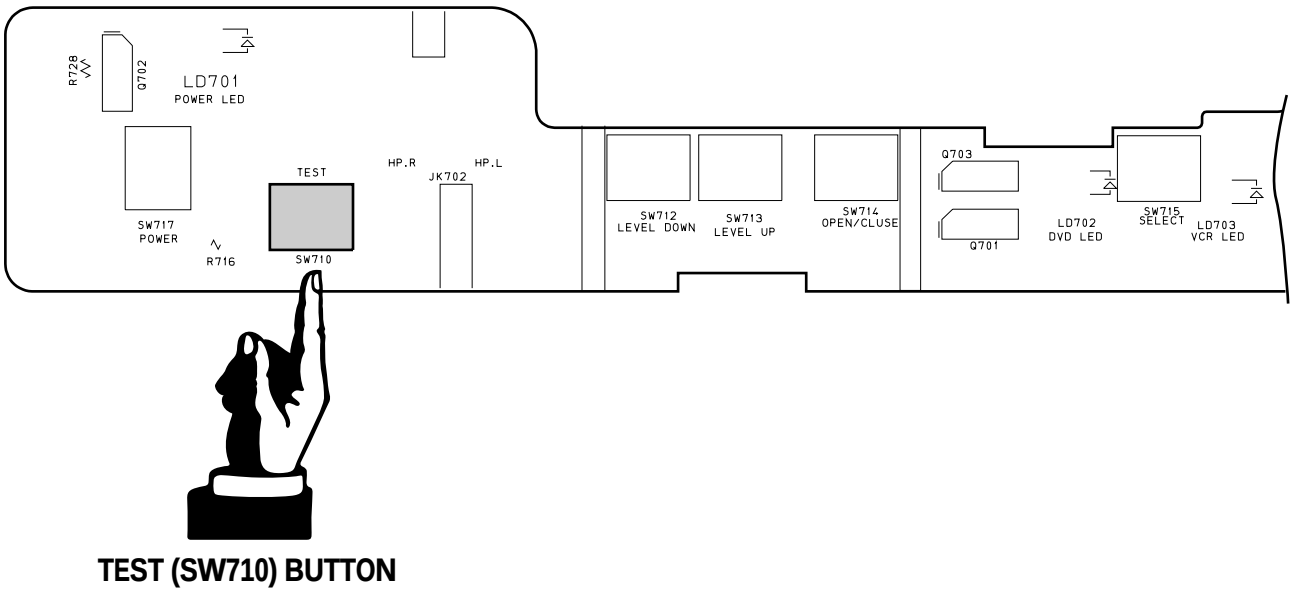


Fig. 4-1

4-1-2 SW710 (TEST) location for adjustment mode setting



TEST (SW710) BUTTON

Fig. 4-2 Function-Timer PCB (Top View)

4-2 Mechanical Adjustment

Note : Refer to the Mechanical Manual “DX-9R (AC68-00001A)” for the adjustment and confirmation of ass’y full deck.

4-2-1 The number and position of test point

Test point :	TP01-2 (Audio Output)
	TP01-3 (Envelope)
	TP01-4 (H’D S/W -Trigger)
	TP01-5 (Control Pulse)

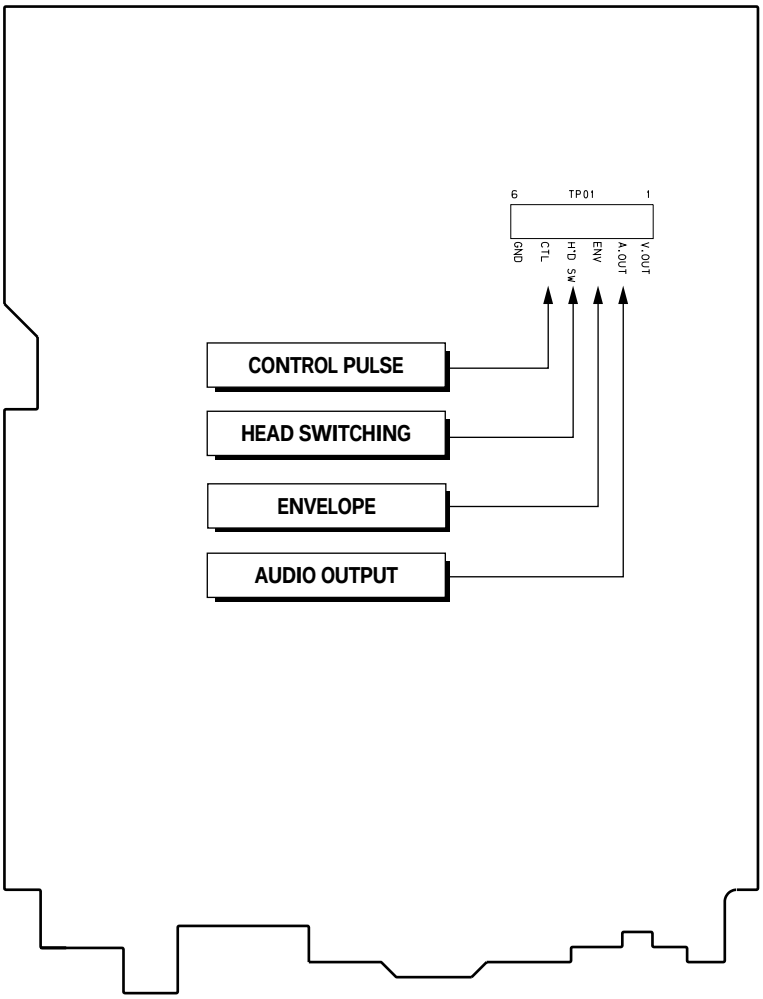


Fig. 4-3 Location of Test point (VCR Main PCB-Top View)

4-2-2 ACE Head position (X-Point) Adjustment

(See the 4-2-1(d) ACE Head Position (X-Point) Adjustment on page 4-2 of the Mechanical Manual)

1) Playback the alignment tape (Color bar).
2) Press the “SW710 (TEST)” button on F/Timer PCB to set the adjustment mode. (See Fig. 4-2)
3) Press the “5” button of remote control then adjustment is operated automatically. (See Fig. 4-1)
4) Connect the CH-1 probe to TP01-3 (Envelope) the CH-2 probe to TP01-1 (H’D switching pulse) and then trigger to CH-1.
5) Insert the (-) driver into the X-Point adjustment hole and adjust it so that envelope waveform is maximum.
6) Turn the Power off.

4-3 Head Switching Point Adjustment

1) Playback the alignment tape.
2) Press the “SW710 (TEST)” button on Function-Timer PCB to set the adjustment mode. (See Fig. 4-2)
3) Press the “SPEED” button of remote control then adjustment is operated automatically. (See Fig. 4-1)

4-4 NVRAM Option Setting

1) NVRAM Option is adjusted at production line basically.
2) In case VCR Main PCB Micom (IC601) and NVRAM (IC605 ; EEPROM) is replaced, be sure to set the corresponding option number of the reqaired model. (If the option is not set, the unit is not operated.)

1) Press the “SW710 (TEST)” button on Function-Timer PCB to set the adjustment mode. (See Fig. 4-2)
2) Press the “MENU” button on the remote control about 5 seconds then option setting is appeared. (See Fig. 4-4)
3) Select the option number (See table 4-1) of corresponding model with “FF”, “REW” button on the remote control.
4) If selecting the option number is completed, press the “STOP” button of remote control. (If “STOP” button is pressed, the selected number is changes reversed color. ; See Fig. 4-4)
5) Press the Display button of remote control again to store the option number. (“PLEASE WAIT” is displayed for a second as shown Fig. 4-5 and this setting is completed.)

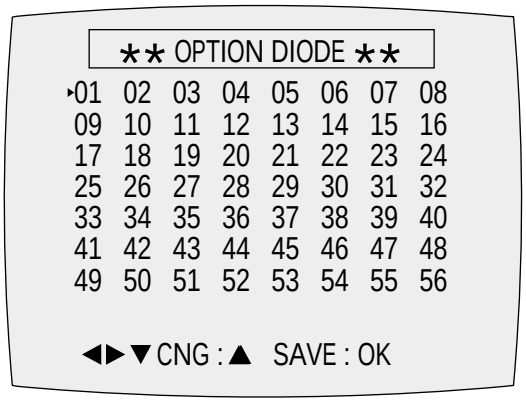


Fig.4-4

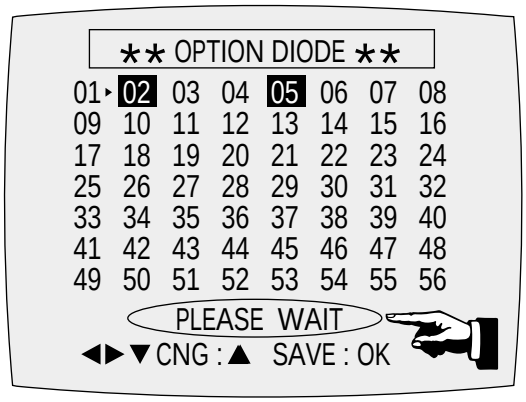


Fig. 4-5

<Table 4-1 NVRAM Option Table>

COUNTRY	OPTION NUMBER
COMMON	2, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 18, 22, 32, 36, 43, 44, 48, 49, 53, 54, 55
Germany	2, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 18, 22, 24, 29, 32, 36, 43, 44, 49, 53, 54, 55
France	2, 5, 6, 7, 8, 12, 13, 14, 15, 18, 19, 22, 24, 26, 29, 36, 43, 44, 49, 53, 54, 55
Russia	2, 5, 6, 8, 11, 12, 13, 14, 15, 18, 19, 22, 25, 30, 31, 32, 36, 43, 44, 49, 53, 54, 55
U.K	3, 5, 6, 7, 8, 10, 12, 13, 14, 15, 22, 24, 27, 36, 43, 44, 49, 53, 54, 55
Italy	2, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 18, 22, 24, 29, 31, 36, 43, 44, 49, 53, 54, 55
Spain	2, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 18, 22, 24, 31, 36, 43, 44, 49, 53, 54, 55
Switzerland	2, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 18, 19, 22, 24, 26, 29, 31, 32, 36, 43, 44, 49, 53, 54, 55
Austria	2, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 18, 22, 24, 32, 36, 43, 44, 49, 53, 54, 55
Netherland	2, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 18, 22, 24, 29, 30, 32, 36, 43, 44, 49, 53, 54, 55
Denmark	2, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 18, 22, 24, 29, 30, 36, 43, 44, 49, 53, 54, 55
Sweden/Finland	2, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 18, 22, 24, 29, 30, 31, 36, 43, 44, 49, 53, 54, 55
Portugal	2, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 18, 22, 36, 43, 44, 48, 49, 53, 54, 55
Turkey	5, 6, 8, 9, 10, 12, 13, 14, 15, 18, 22, 32, 34, 36, 43, 44, 48, 49, 53, 54, 55